

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-207
Relating to Certification of New Motor Vehicles

TOYOTA MOTOR CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1992 model Toyota Motor Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: NTY2.4T5FCD8 Displacement: 2.4 Liters (144 Cu. In.)

Exhaust Emission Control Systems and Special Features:

Three-Way Catalyst
Heated Oxygen Sensors (two)
Exhaust Gas Recirculation
Pulsed Secondary Air Injection
Multipoint Electronic Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification emission standards for this engine family in grams per mile are:

<u>Loaded Vehicle Weight (pounds)</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
0-3750	0.39	9.0	0.4
3751-5750	0.50	9.0	1.0

The certification emission values for this engine family in grams per mile are:

<u>Loaded Vehicle Weight (pounds)</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
0-3750	0.13	1.3	0.1
3751-5750	0.20	1.9	0.1

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Code of Regulations, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (California Health and Safety Code Section 43205).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 25th day of July, 1991.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

17.11.00 Supplemental data sheets

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1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page _____

Manufacturer TOYOTA Engine family NTY2.4T5FCD8

Passenger Cars Light-Duty Trucks x Medium-Duty Vehicles Fuel Type Gasoline

Engine Config. L-4 Liter (CID) 2.4 (144.4) Evap.Family EV-E

Emission Control System & Special Features MPI + PAIR + EGR + HO2S + TWC / (2)
(Use abbreviation per SAE J1930 Jun88)

Engine :Front x Mid. Rear Drive: FWD RWD 4WD-FT 4WD-PT x

Certification std. : 1.0 NOx

Engine Code/ (Cert std.)	Veh. Models (If Coded see attachmt.)	Trans. Type: A-Auto M-Man.	ETW	RLHP or DPA	Ign. System (PCME/PROM) Part No.	EGR System Part No.	Catalyst Part No.
1	RN110L-CRMDEA -CRLDEA	M5	3750	14.3	89661-35650	25620-35100	18450-65020(H01)*1
2	RN110L-CRMDEA -CRLDEA		3750 3875	14.3			
3	RN110L-CRMDEA -CRLDEA		3875	15.7			
4	RN110L-CRMDEA -CRLDEA		3875	15.7			
5	RN110L-CRPDEA	A4	3875	14.3	89661-356560	25620-35130	
6	RN110L-CRPDEA		3875	14.3			
7	RN110L-CRPDEA		3875	15.7			
8	RN110L-CRPDEA		3875	15.7			

Comments : Please refer to manufacturer's HP list for correct dyno test HP setting based on model and equipment.

Note *1 : Parenthetical information represents identifying marks found on production parts.

VEHICLE MODELS :

Truck 4WD
RN110L-CRMDEA
-CRLDEA
-CRPDEA

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1992 MODEL-YEAR CERTIFICATION REVIEW SHEET
EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS (1/2)

Mfr. TOYOTA Engine Family NTY2.4T5FCD8
7.4
 Passenger car _____ Engine Code Types: CA x 49S _____ 50S _____
 Light-Duty Truck x LVW 3,572 - 3,710
 Medium-Duty Vehicle _____ LVW _____ Fuel Type Gasoline

Liter (CID) 2.4 (144.4) Rated HP 116 @ 4,800 RPM Valves/Cyl. 2

Engine Config. L-4 Evap. Family EV-E

Type certification: 50K x 100K _____ AB965 _____

Emission Control System & Special Features MPI + PAIR + EGR + HO2S + TWC ⁽²⁾
 (Use abbreviation per SAE J1930 Jun88)

	Section/Page #
1 Authorized Representative	01.02.02
2 Fuel, Test Equipment Procedures & Route	03.00.00, 04.00.00, 05.00.00
3 Emiss. Warranty Statement(St.)	17.10.00
4 Maint: Cert/Req'd/Recm'd	06.00.00
5 Emiss. Label/Vac. Hose Diag.	07.00.00
6 Evap. Control System	19.00.00
7 Engine Parameters	20.01.00
8 Fuel/Ignition Systems	08.01.01.01, 08.02.01.00
9 Exhaust Control System	20.02.00
10 Projected Sales incl LDT/MDV Split	17.13.00
11 Vehicle Description	20.02.08
12 Test Vehicle Information	Dur. ID Dur. MY Emiss. ID Emiss. MY
C/O MY or C/A	89-DT1*1 89 MY 89-RN10*2 91 MY
Vehicle Logs	89-DT1*1 89-RN10*2
Zero Mile Books	89-DT1*1 89-RN10*2
Maint. Logs & Engr. Eval.	89-DT1*1 N/A
13 Evap. Bench Test Procedure	13.02.00
14 Gen. Std., Increase in Em., Safety, Mtg. All Requirements	20.03.05
15 Prod. Veh. Same as Test Veh. St.	17.01.01
16 Emiss. Label Durability St.	07.00.00
17 Driveability St.	17.01.02
18 Fill Pipe Specifications	17.04.02
19 Altitude A/F Requirement	17.02.00
20 OBD Sys. incl marked revisions	17.05.00
21 EPA Certificate	After EO
22 Cert. preview program	Already submitted
23 Cert. plan for Optional Stds.	17.15.00

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(2/2)

PROJECTED EMISSIONS(1) (2)

Veh. ID	Code (Displ)	Trans	Axle Ratio	ETW	RLHP	MPG City/Hwy	Test Loc.	NMHC	CO	NOx	Hwy NOx	CO2	Evap/ Part
89-RN10 (08)	4	M5	4.10	3625	15.7	22.1/28.8	EPA	0.13	1.3	0.07	0.07	399	- / -
91-TCR4 (05)	4 (2.4L)	A4	4.30	4250	14.0	- / -	EPA	-	-	-	-	-	0.94/ -

(1) The emission data vehicle/s above comply with

standards of : 0.39 9.0 0.4 0.8 - 2.0/ -
 and includes deterioration factors of : 1.201 1.000 1.000 1.000 - 0.004/ -

89-D3, 88-D3

88-D6, 90-D5,

91-DT1, 89-DT3,

87-DT1, 88-DT3,

(2) Evaporative DF is the average of Vehicle DF 91-DT3 & 92-D5 and Bench DF 83-BV-30

Remarks *1 See 17.12.00 in 89 MY application

*2 See 20.03.04 and 20.03.06

Application

Processed by D Nguyen Date 7/18/91 Reviewed by D Nguyen Date 7/18/91

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Issued : 05/24/91